

FIG. 1

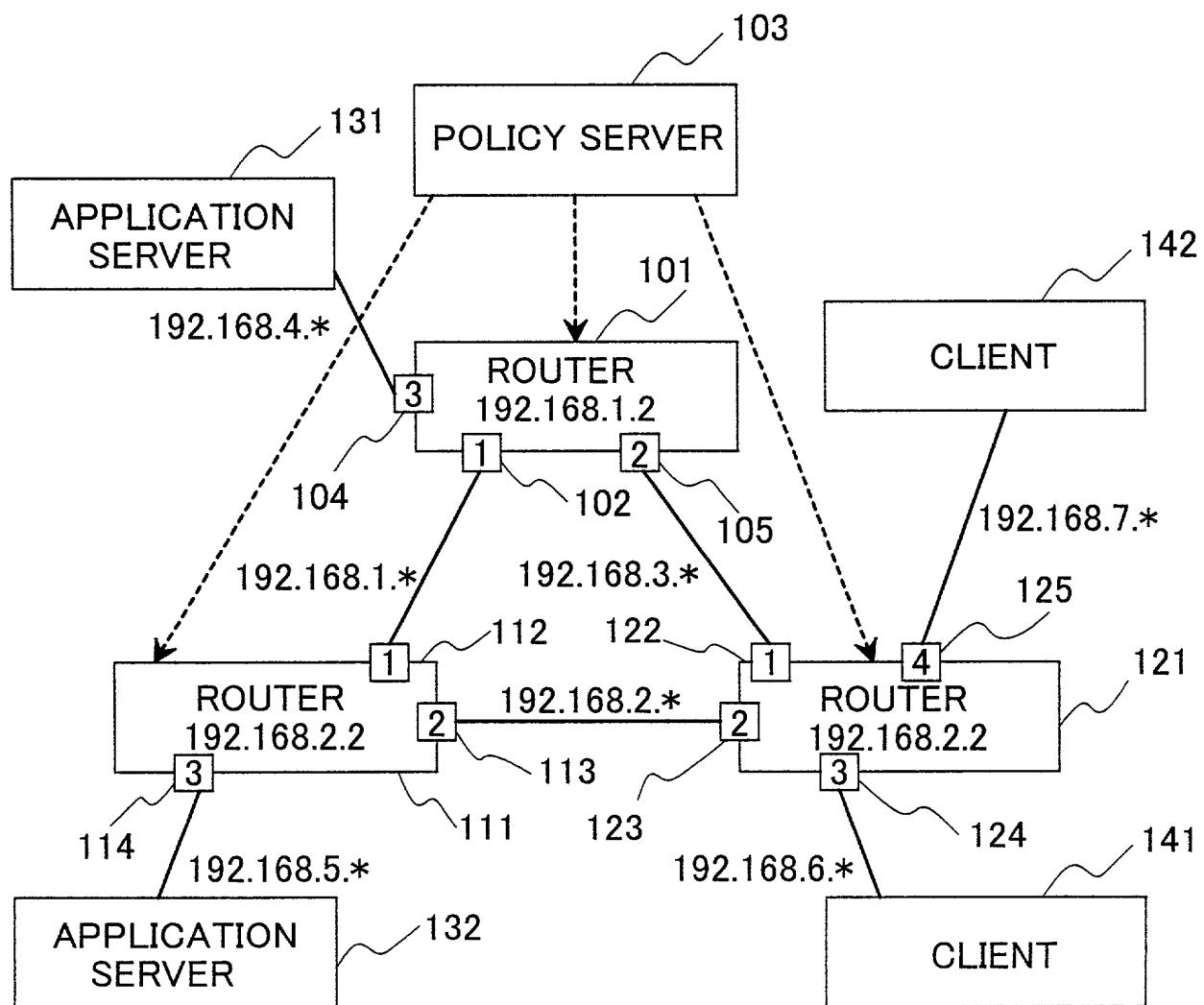


FIG. 2

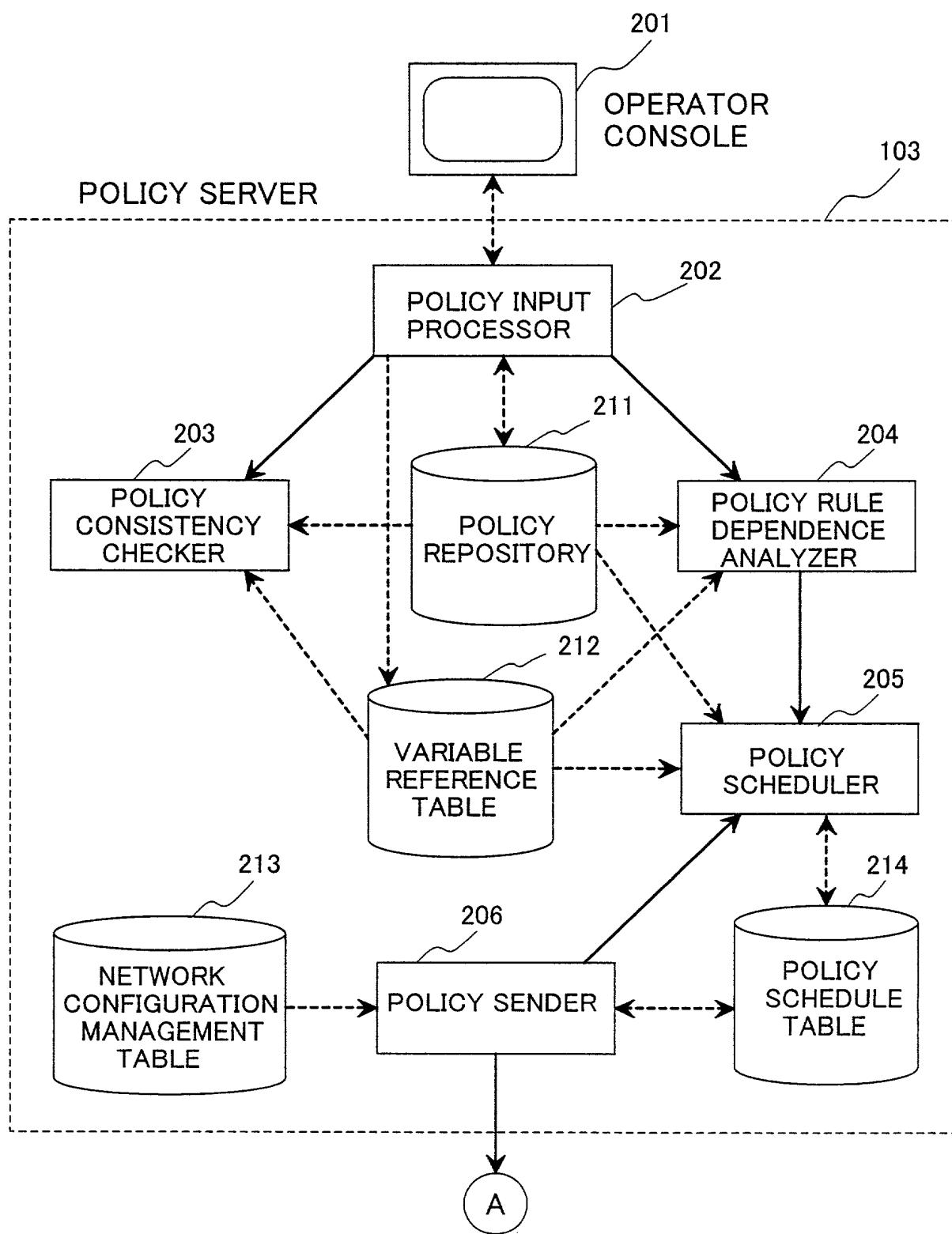


FIG. 3A

301 →

CLASSIFICATION	CONDITION				ACTION	TIME	
	PROTOCOL	SOURCE IP	DESTINATION IP	DSCP			
302	TCP	192.168.4.1	-	-	VIDEOSOURCE	SAT	SUN
303							
304							
305							
306							
307							
308							
309							

321

RULE TYPE		CONDITION			ACTION		TIME	
POLICING	LABEL	RATE UNIT	COMMITTED RATE	BURST RATE	LABELING	FROM	TO	
	VIDEO SOURCE	KBPS	>=1000	-	VIDEO POLICE	9.00	17:00	
↑ 322	↑ 323	↑ 324	↑ 325	↑ 326	↑ 327	↑ 328	↑ 329	↑ 330

341

QOSACTION	RULE TYPE	CONDITION	ACTION						TIME	
			DISCARD			LABELING			FROM	TO
			DS CP	ALG	RATE	UNIT	MIN	MAX		
VIDEOSOURCE	EF	WRED	300	PACKETS	50	100	VIDEOSHEDL	SAT	SUN	↑ 352
↑ 342	↑ 343	↑ 344	↑ 345	↑ 346	↑ 347	↑ 348	↑ 349	↑ 350	↑ 351	↑ 352

FIG. 3B

361 →

QOSACTION	RULE TYPE	CONDITION	ACTION						TIME	
			DISCARD			LABELING				
			DS CP	ALG	RATE	UNIT	MIN	MAX		
	VIDEO POLICE	-	DROPALL	-	-	-	-	-	9:00	17:00
↑ 362	↑ 363	↑ 364	↑ 365	↑ 366	↑ 367	↑ 368	↑ 369	↑ 370	↑ 371	↑ 372

381

RULE TYPE		CONDITION		ACTION			TIME	
QOSACTION		LABEL	RATE UNIT	MIN RATE	MAX RATE	PARENT	FROM	TO
		VIDEOSSCHEDL	KBPS	1000	2000	PRIORITYSCHEDL	SAT	SUN
↑	382	383	384	385	386	387	388	389

FIG. 4A

RULE ID	RULE TYPE	CONDITION	ACTION	
#1	CLASSIFICATION	→ (A)	1	← 402
#2	POLICING	→ (B)	2	← 403
#3	QOSACTION	1	→ (C)	← 404
#4	QOSACTION	2	→ (D)	← 405
#5	SCHEDULING	3	→ (E)	← 406

↑ ↑ ↑ ↑

411 412 413 414

FIG. 4B

(A) →

PROTOCOL	TCP	← 421
SOURCEIPMIN	192.168.4.1	← 422
SOURCEIPMAX	192.468.4.1	← 423
SOURCEPORT	NULL	← 424
DESTINATIONIPMIN	NULL	← 425
DESTINATIONIPMA	NULL	← 426
X		
DESTINATIONPORT	NULL	← 427
DSCP	NULL	← 428

(B) →

LABEL	1	← 431
COMMITTEDRATE	1000	← 432
BURSTRATE	NULL	← 433

(C) →

DSCP	46	← 441
DISCARDALGORITHM	WRED	← 442
DISCARDRATE	300	← 443
THRESHOLDUNIT	PACKETS	← 444
MINTHRESHOLD	50	← 445
MAXTHRESHOLD	100	← 446
LABELING	3	← 447

(D) →

DSCP	255	← 451
DISCARDALGORITHM	DROPALL	← 452
DISCARDRATE	NULL	← 453
THRESHOLDUNIT	NULL	← 454
MINTHRESHOLD	NULL	← 455
MAXTHRESHOLD	NULL	← 456
LABELING	NULL	← 457

(E) →

MINRATE	1000	← 461
MAXRATE	2000	← 462
PARENT	PRIORITYSHEDL	← 463

FIG. 5

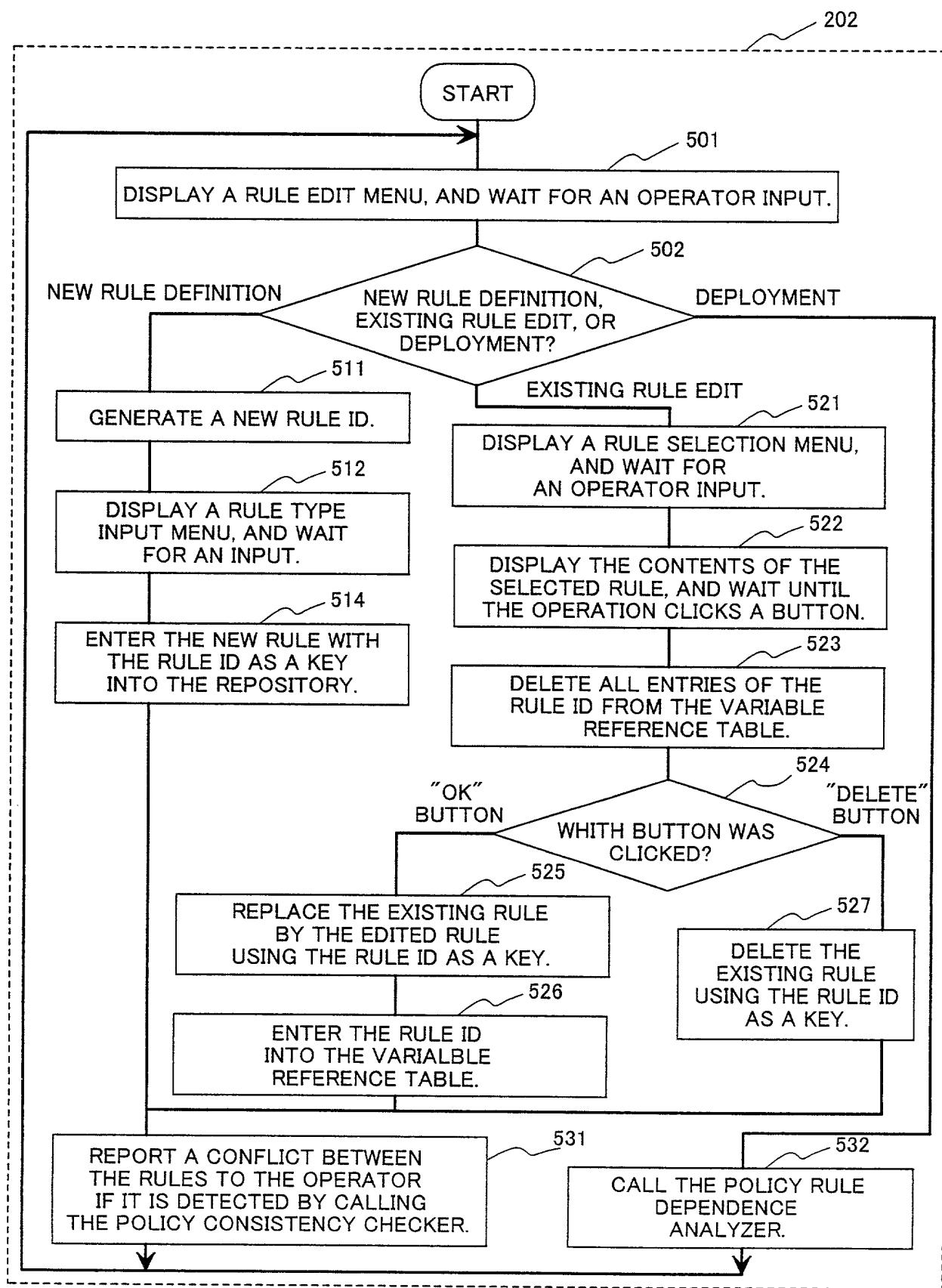


FIG. 6

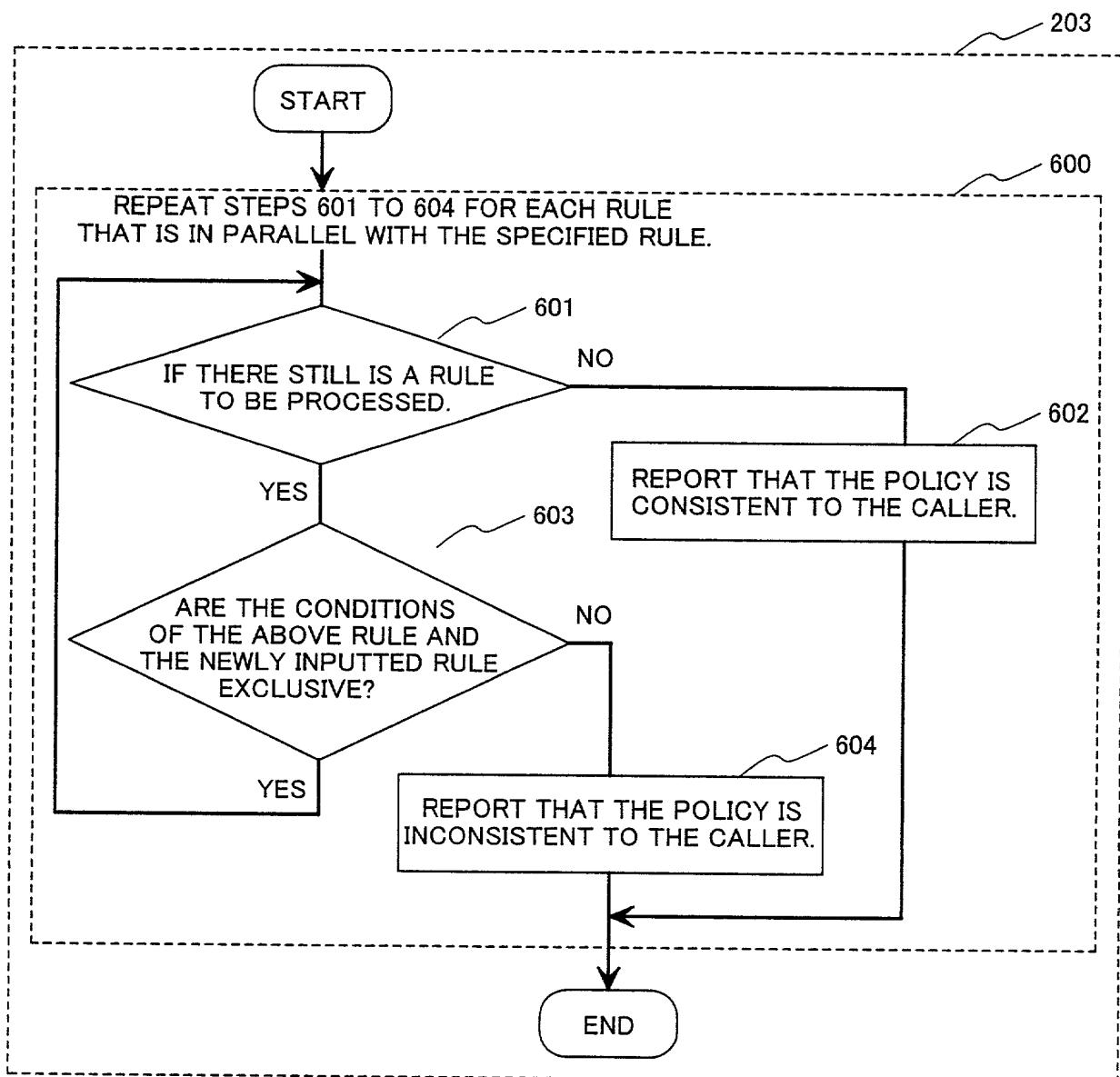


FIG. 7

213

↓

RULE ID	EVENT	NEXT TIME	TIME	
#1	DEPLOY	1999-11-27 0:00	SAT	← 702
#3	DEPLOY	1999-11-27 0:00	SAT	← 703
#5	DEPLOY	1999-11-27 0:00	SAT	← 704
#2	DEPLOY	1999-11-27 9:00	9:00	← 705
#4	DEPLOY	1999-11-27 9:00	9:00	← 706
#2	UNDEPLOY	1999-11-27 17:00	17:00	← 707
#4	UNDEPLOY	1999-11-27 17:00	17:00	← 708
#1	UNDEPLOY	1999-11-29 0:00	SUN	← 709
#3	UNDEPLOY	1999-11-29 0:00	SUN	← 710
#5	UNDEPLOY	1999-11-29 0:00	SUN	← 711

↑
721

↑
722

↑
723

↑
724

FIG. 8

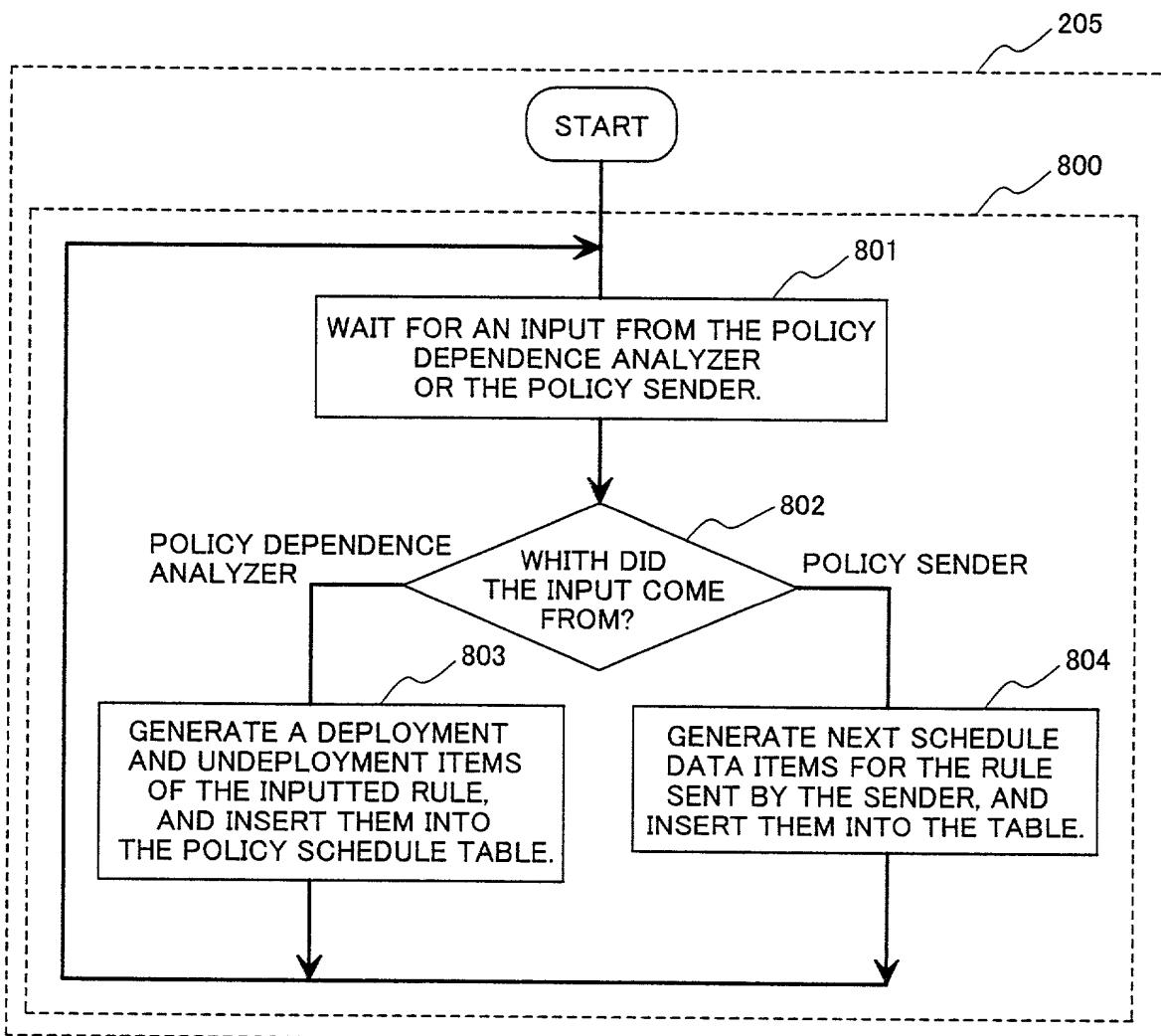


FIG. 9

TARGET IP	ROUTER IP	INTERFACE	
192.168.4.*	192.168.1.2	3	← 902
192.168.5.*	192.168.2.2	3	← 903
192.168.6.*	192.168.3.2	3	← 904
192.168.7.*	192.168.3.2	4	← 905

↑ ↑ ↑
911 912 913

FIG. 10

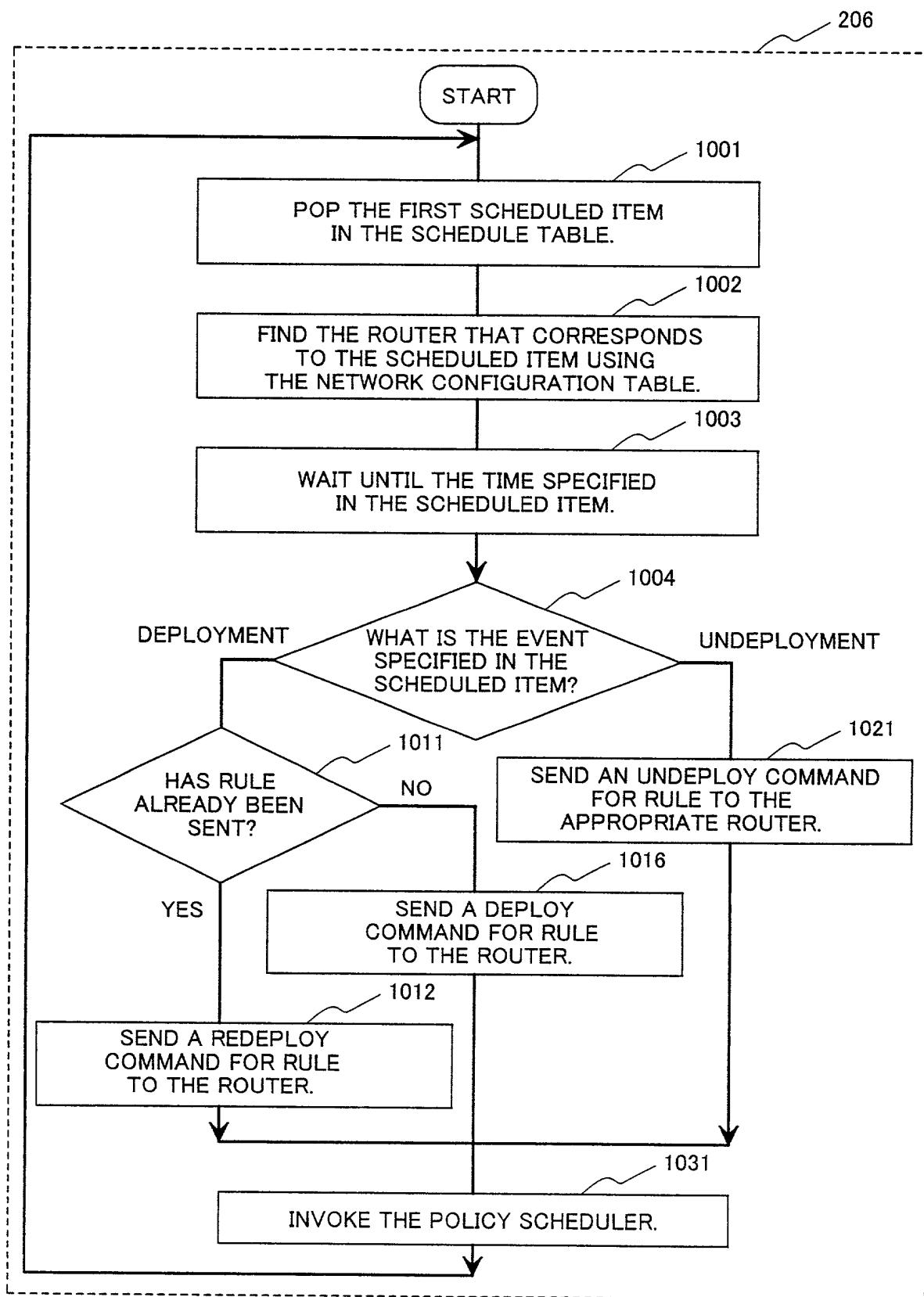


FIG. 11

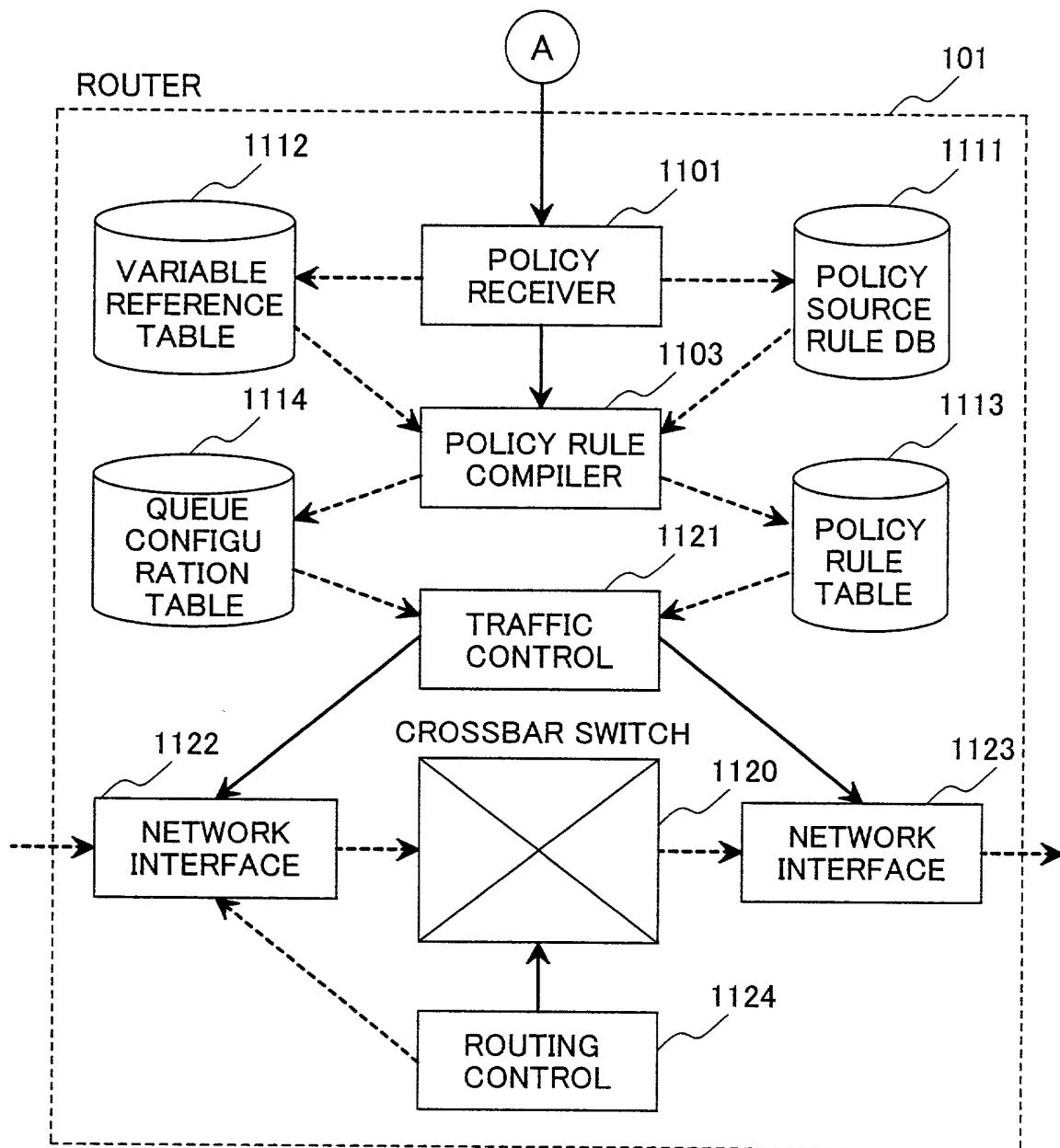


FIG. 12

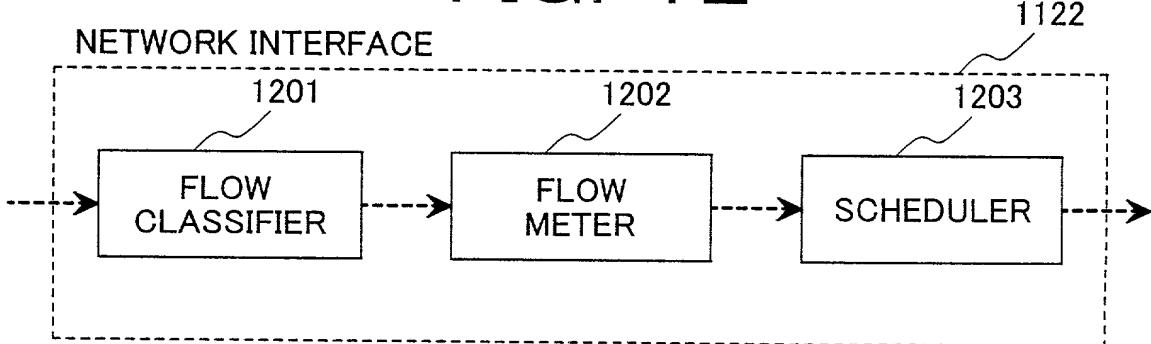


FIG. 13

↑ ↓

RULE ID	RULE TYPE	CONDITION	ACTION	INTERFACE	CODEP
#1	CLASSIFICATION	→ (A)	1	3	90 ← 1302
#2	POLICING	→ (B)	2	3	90 ← 1303
#3	QOSACTION	1 → (C)	3	90 ← 1304	
#4	QOSACTION	2 → (D)	3	90 ← 1305	
#5	SCHEDULING	3 → (E)	3	5 ← 1306	
1311	↑	↑	↑	↑	↑
1312	1313	1314	1316	1317	

FIG. 14A

VARIABLE DEFINITION TABLE

1401	
↓	
1	#1 ← 1411
2	#2 ← 1412
3	#3 ← 1413

VARIABLE DEFINITION TABLE

1421	1422	
↓	↓	
1	#2	#3 ← 1431
2	#4	← 1432
3	#5	← 1433

FIG. 14B

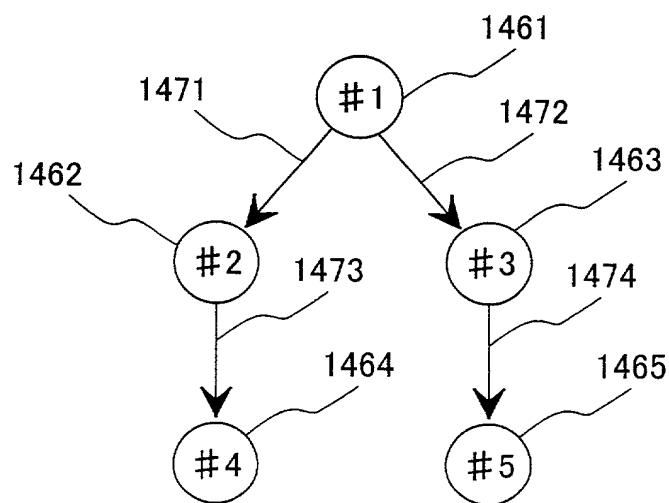


FIG. 15

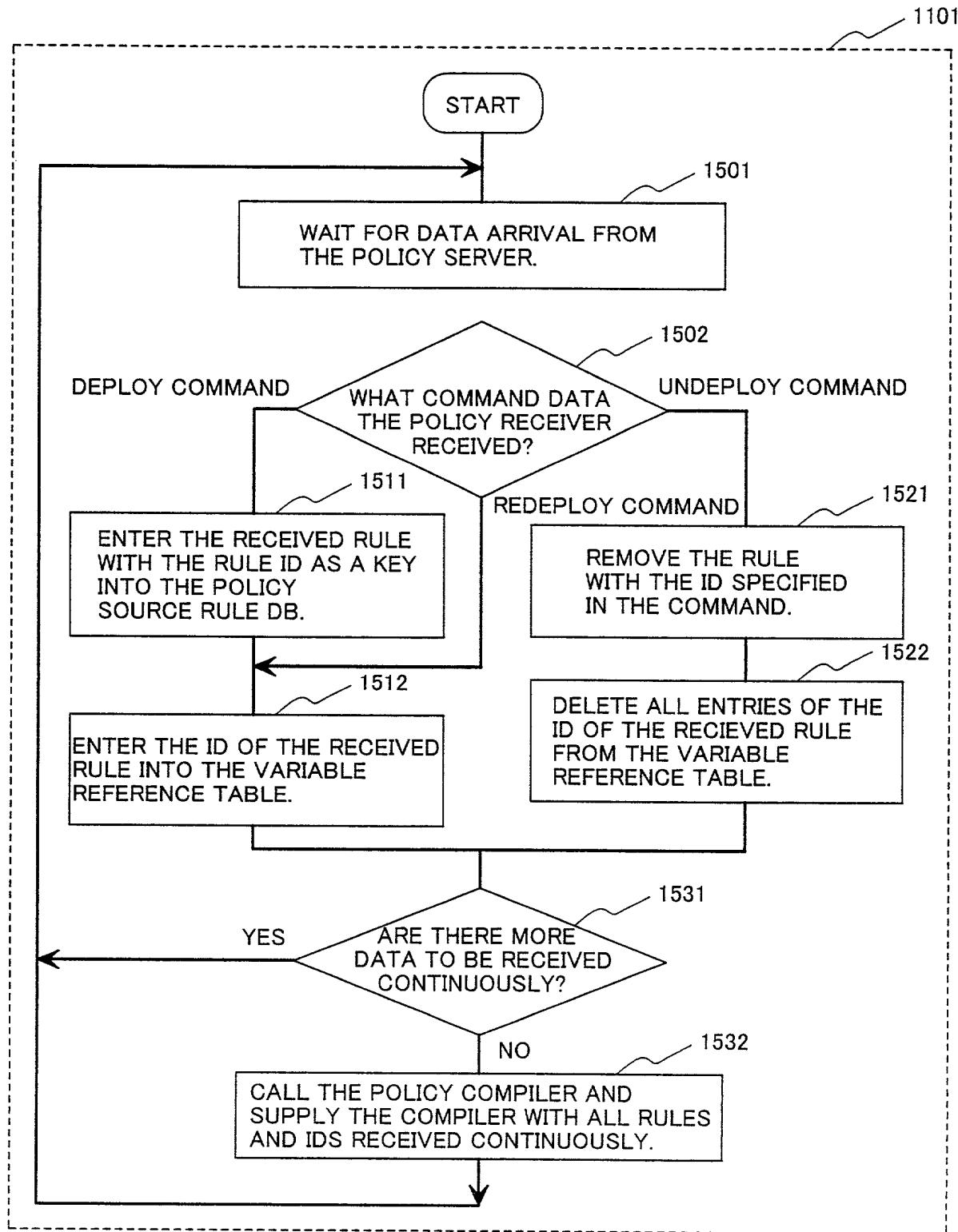


FIG. 16

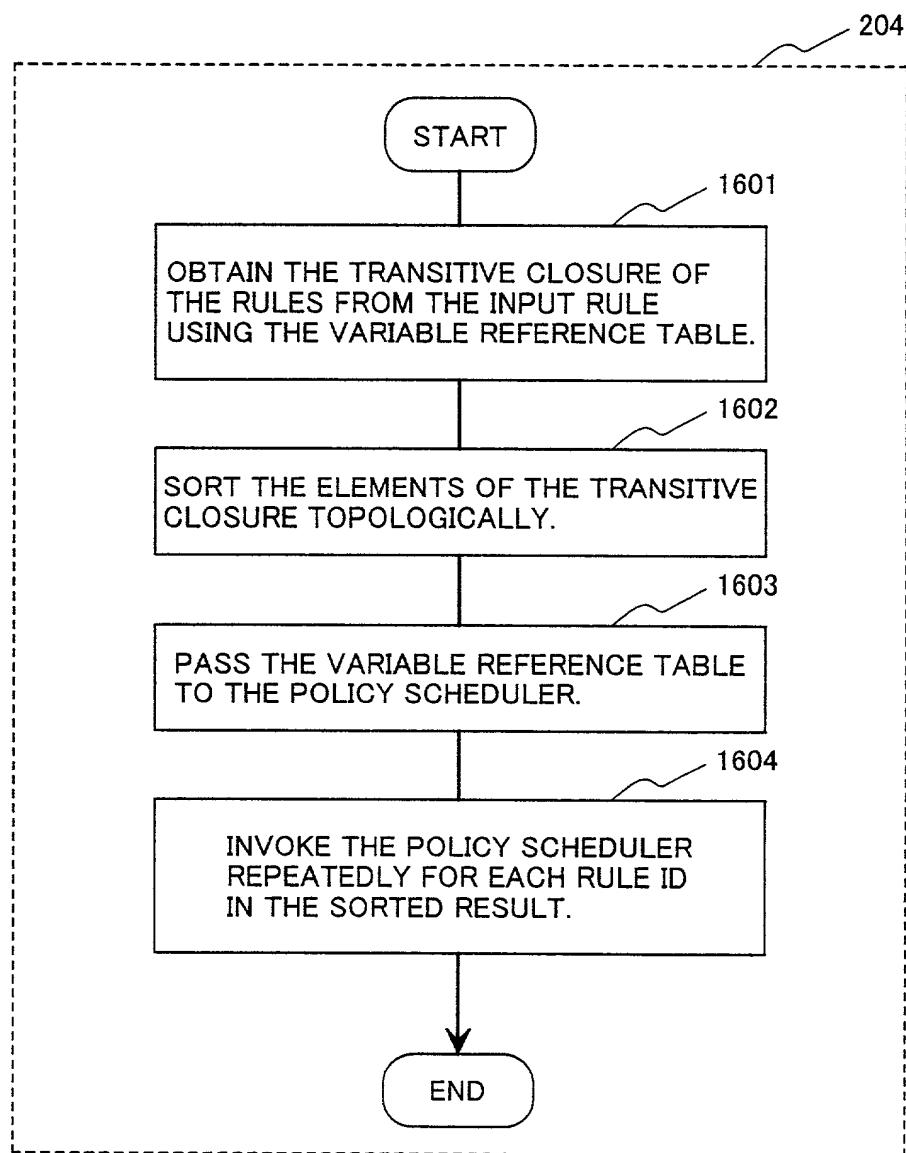
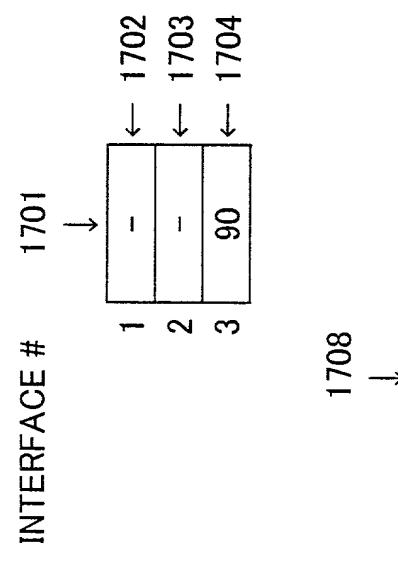


FIG. 17



ADDR-ESS	SOURCE IP MIN	SOURCE IP MAX	SOOUR CE IP	DEST IP MIN	DEST IP MAX	DEST IP PORT	DS	COM	BURST QU	NEW PENAL-	
							IP	MITTED RATE	RATE	EUE	DSC P
90	192.168.4.1	192.168.4.1	0	0.0.0.0	255.255.255.255	0	255	1000	0	5	EF
1721	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	DROP
	1722	1723	1724	1725	1726	1727	1728	1729	1730	1731	1732

FIG. 18

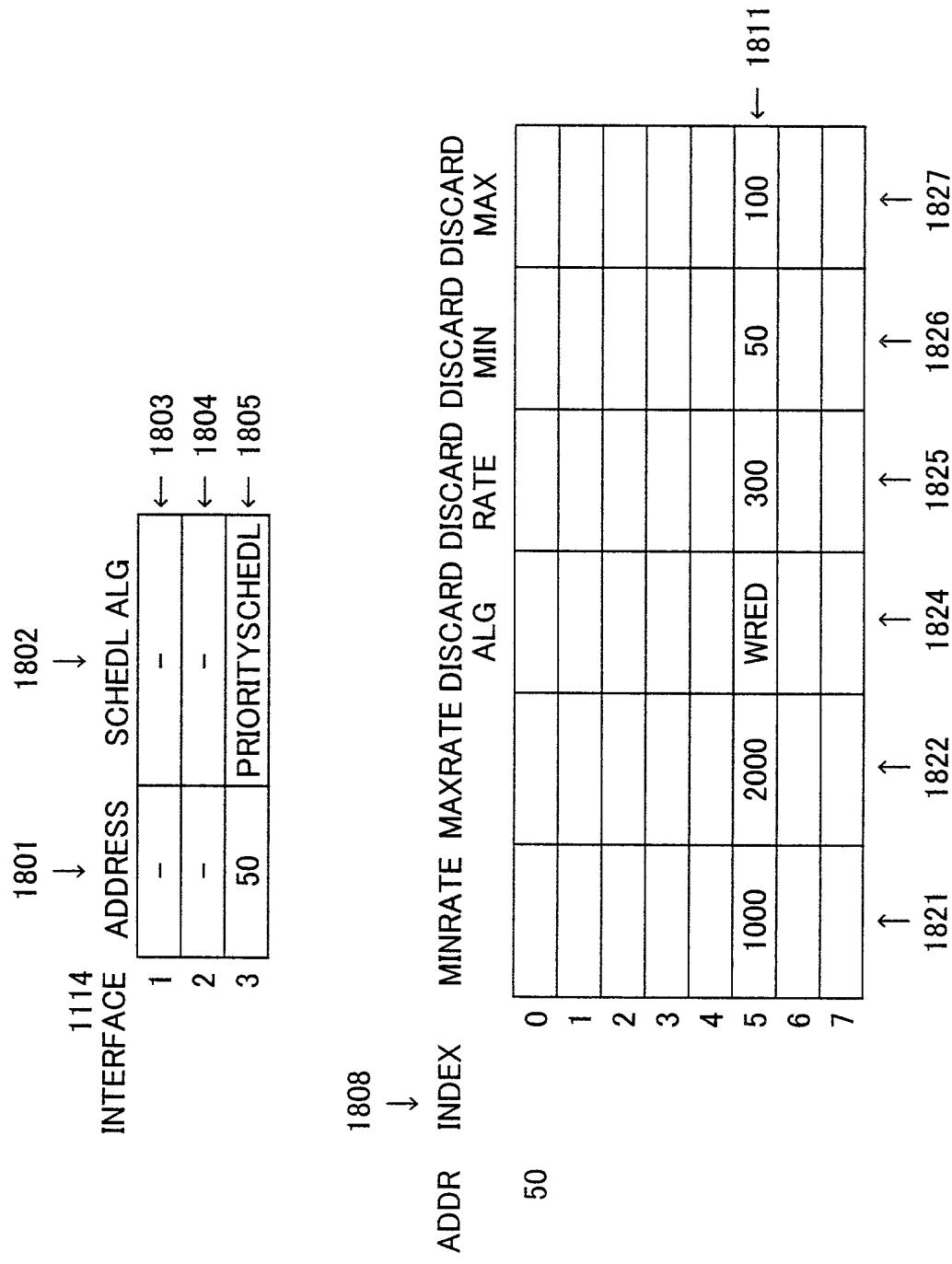


FIG. 19

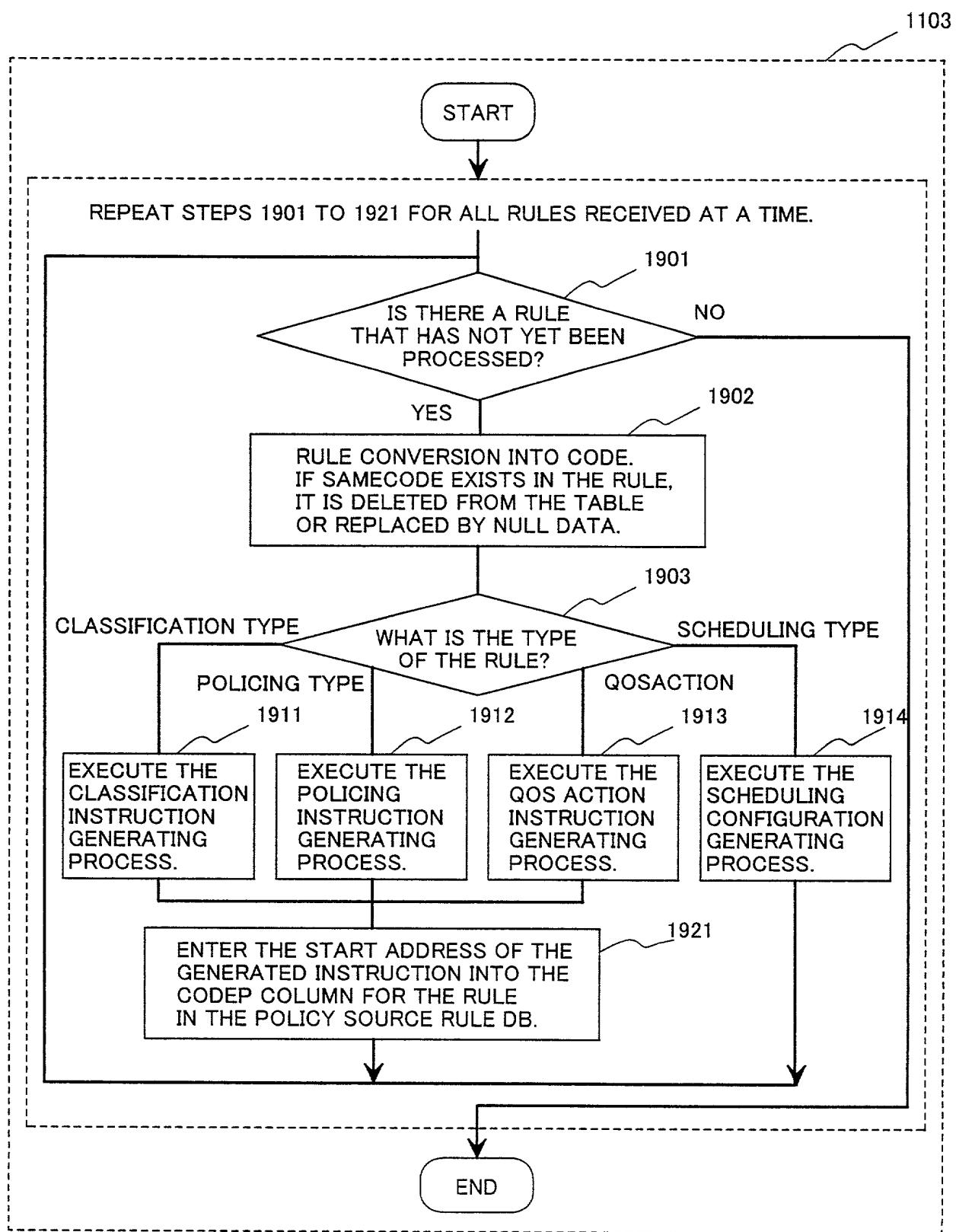


FIG. 20

1911

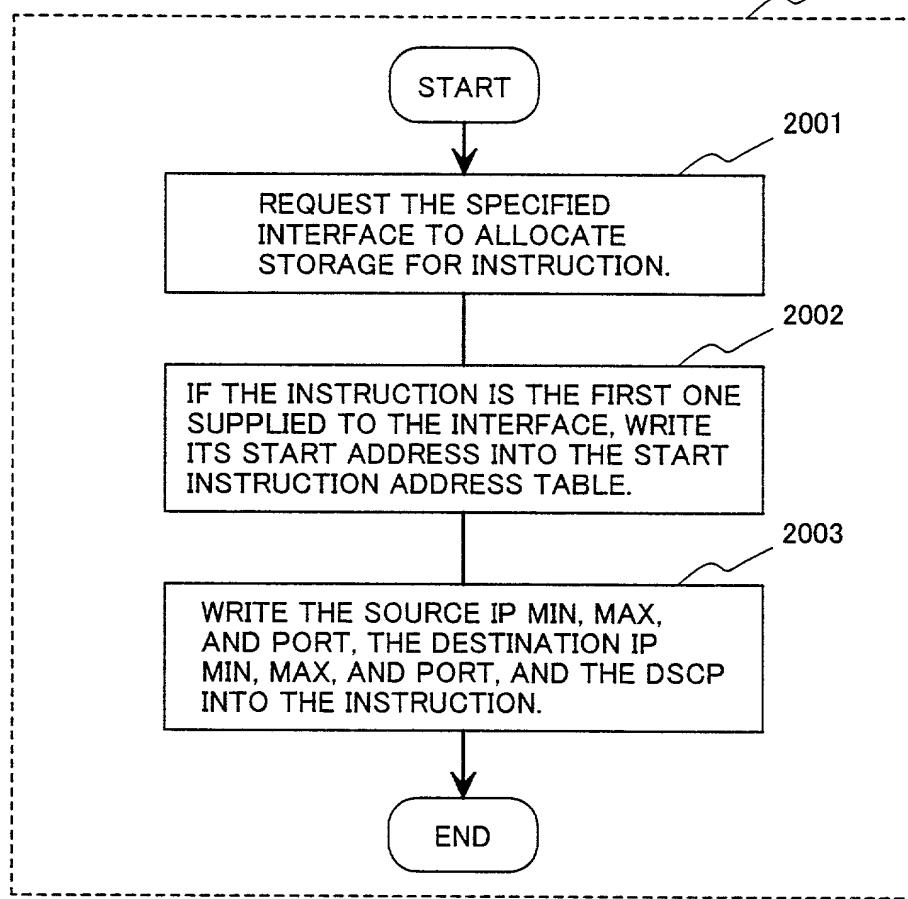


FIG. 21

1912

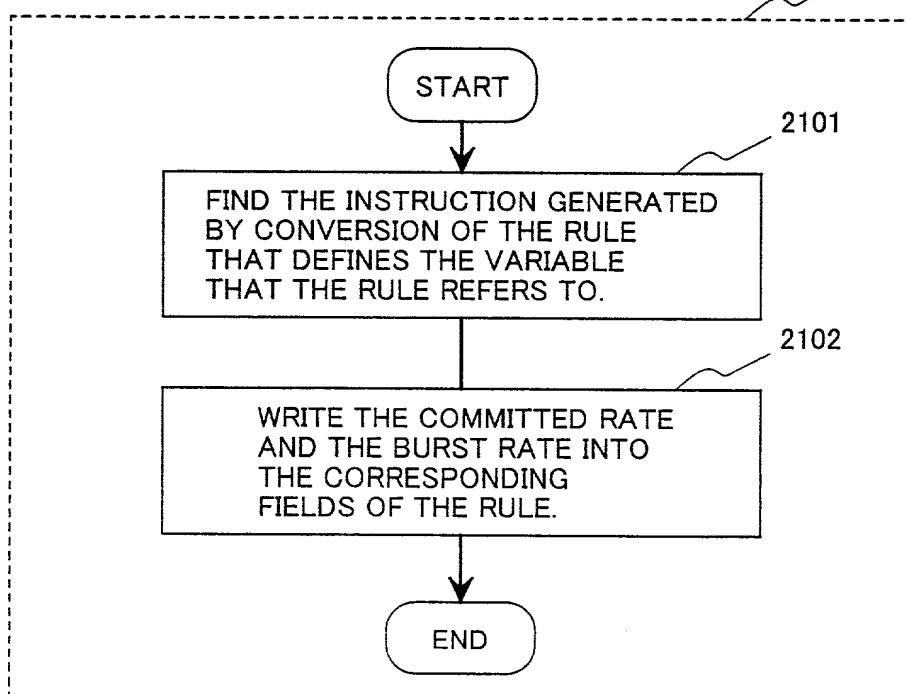


FIG. 22

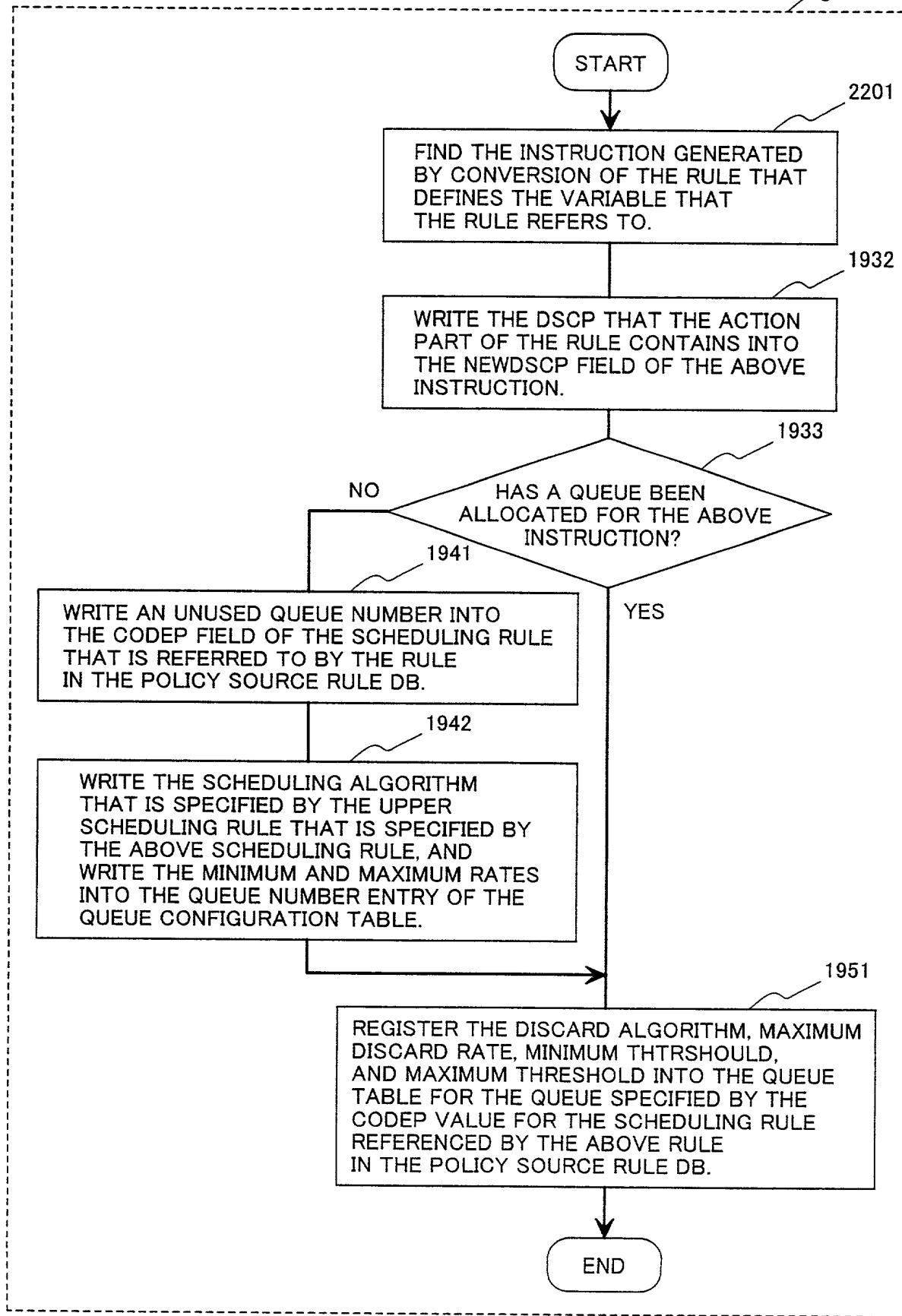


FIG. 23

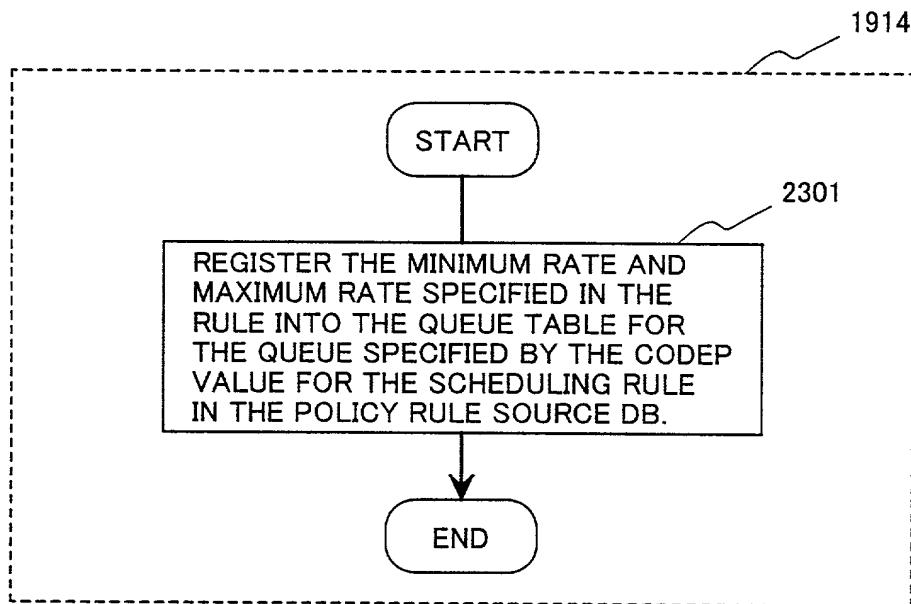


FIG. 24

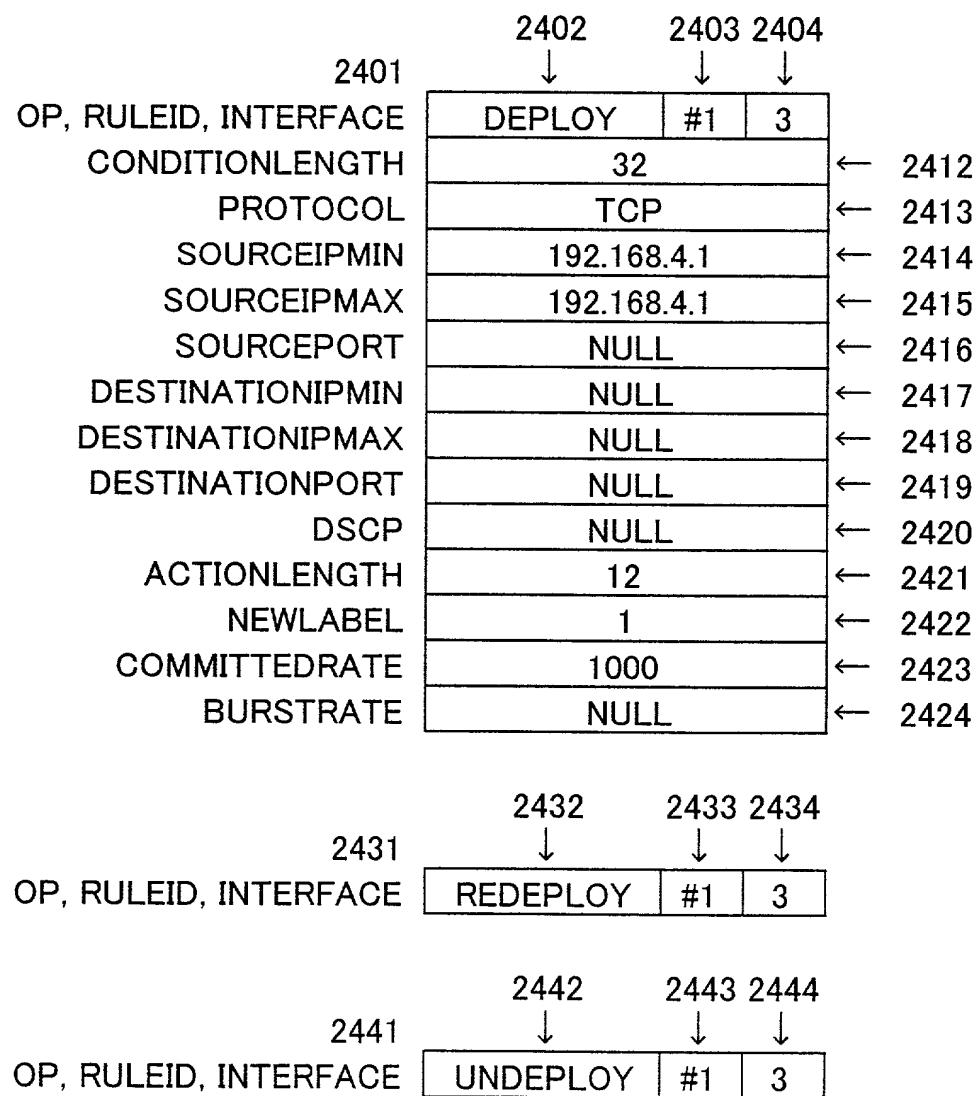


FIG. 25A

PROXY

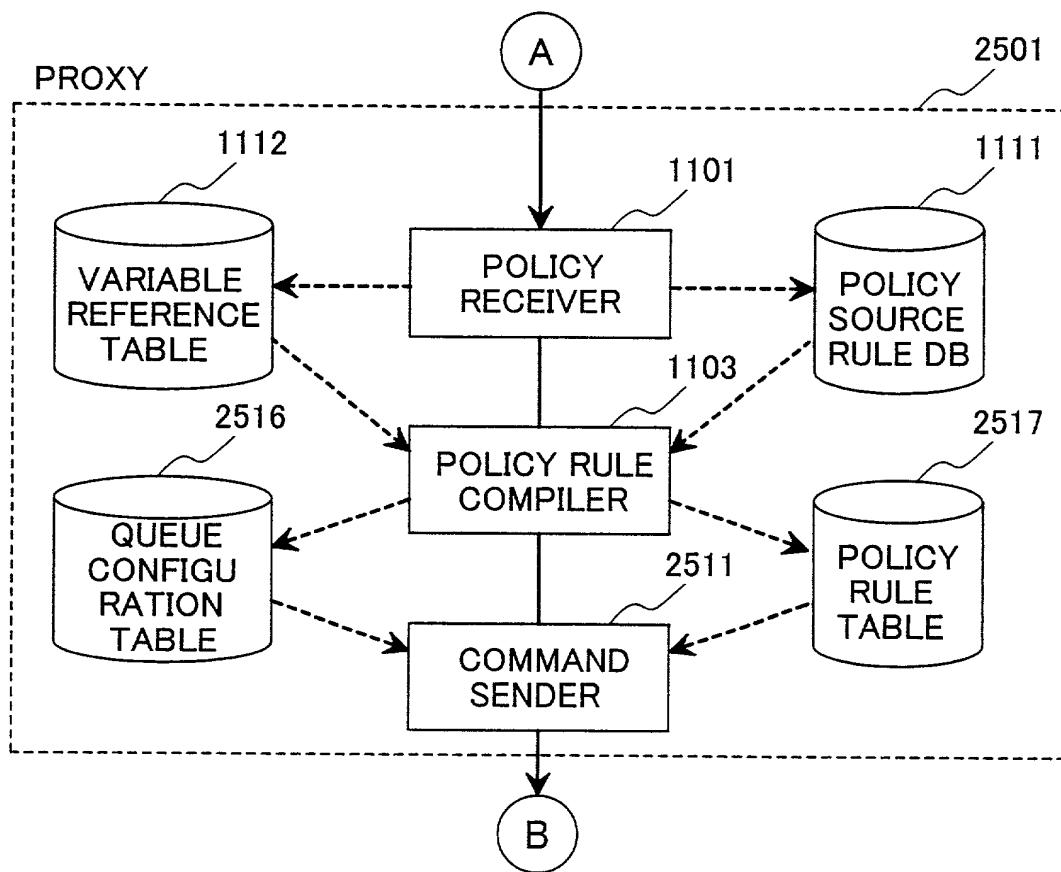


FIG. 25B

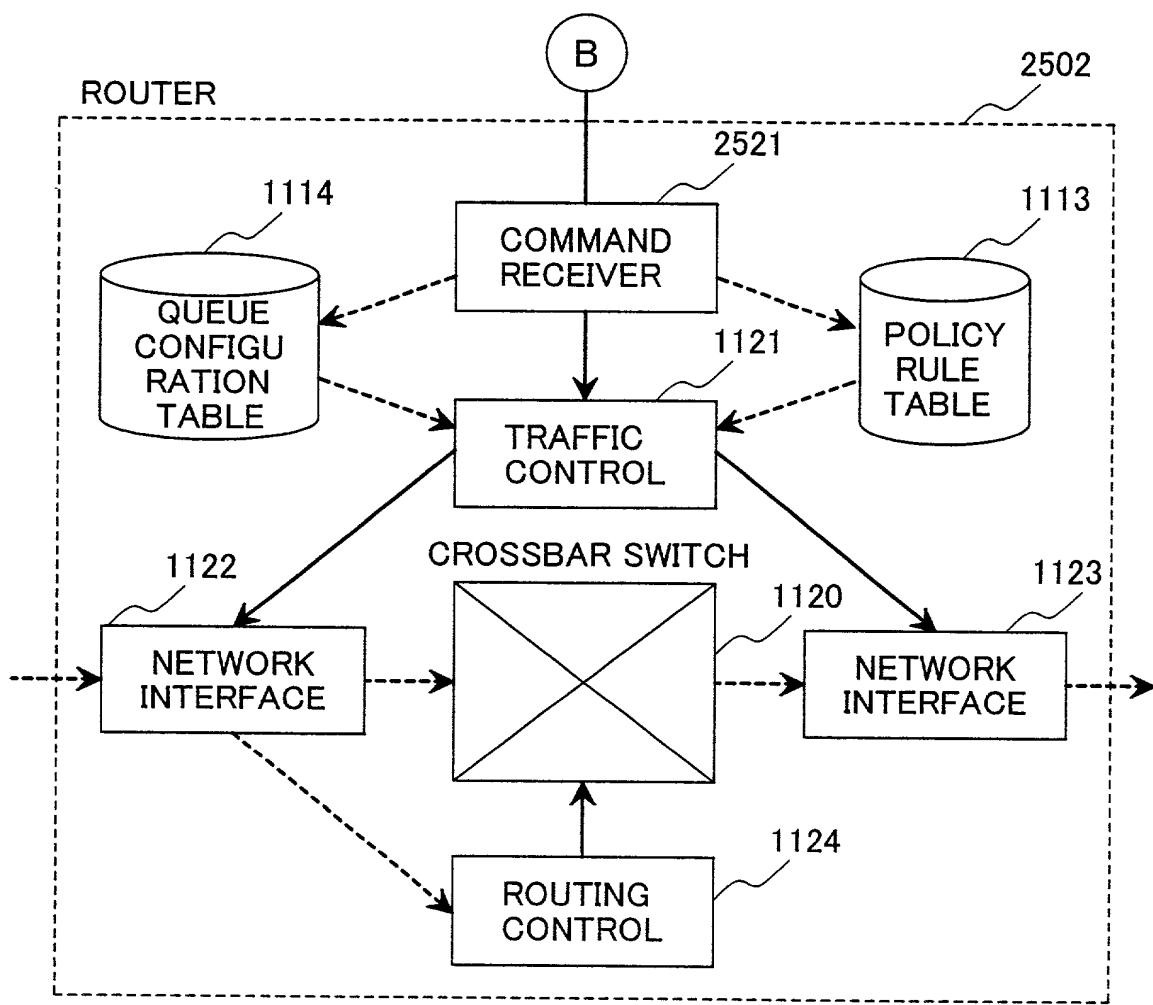


FIG. 26

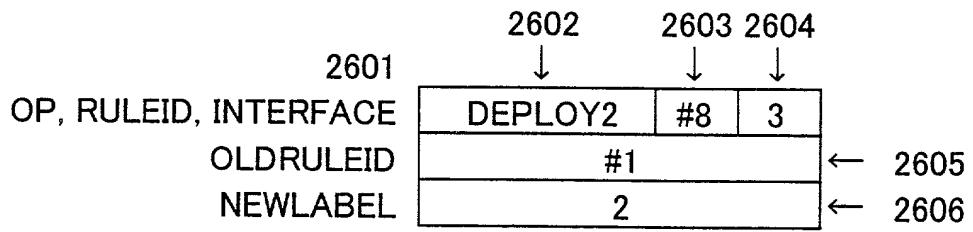


FIG. 27

